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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,390		04/30/2001	John M. Baron	10006918-1	2736
22879	7590	7590 09/22/2004 EXAMINER			
HEWLET	T PACK	ARD COMPANY	HANNETT,	HANNETT, JAMES M	
	,	104 E. HARMONY RO ROPERTY ADMINIS	ART UNIT	PAPER NUMBER	
FORT COLLINS, CO 80527-2400			2612	2	
	•			DATE MAILED: 09/22/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/845,390	BARON, JOHN M.					
Office Action Summary	Examiner	Art Unit					
	James M Hannett	2612					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 30 A	<u>pril 2001</u> .						
•							
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on 30 April 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	☐ accepted or b)☐ objected to define the definition of the description is required if the drawing(s) is objection is required if the drawing(s) is objection.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Image storage queue in which the ability to add images is related to the archival status of the images in the queue.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1: Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,445,460 Pavley in view of USPN 6,177,956 Anderson et al.

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2: As for Claim 1, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a method for handling image data within a digital camera (114) having a memory storage unit (350 and 354) for storing image data, the camera connectable to an external information handling system (110) adapted to receive image data from the camera, the method comprising: storing image data elements, each image data element having an archival status; and indicating said archival status of the image data element. However, Pavley does not teach consecutively storing the image data in an image storage queue.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

3: In regards to Claim 2, Pavley further teaches on Column 4, Lines 44-47 and depicts in Figure 4 associating each image data element with a header (805) and image tags (825) which indicate that the image has been archived. Official notice is taken that it was well know in the art at the time the invention was made to restructure data packet information and to change the location of different data within the packets.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the header section (805) and the image tags section (825) of the data in Pavley. So that the image tag data was contained in the header information.

- 4: As for Claim 3, Pavley further teaches on Column 5, Lines 39-45 each image data element has a filename, and wherein the indicating comprises naming the filename to indicate the archival status. A file attribute designation is viewed by the examiner as a file name.
- 5: In regards to Claim 4, Pavley teaches on Column 4, Lines 44-60 and Column 5, Lines 39-45 and depicts in Figure 4 forming a region in memory that stores the image data (810) and other information such as header information (805) and file attributer designators (825), This is viewed as creating an organizational structure comprising a reserved location for archived image data elements (810); Pavley teaches that a file attribute designator can be set to indicate that the stored image data has been archived. Therefore, the archived image data is places in the image data area (810) of the image file. Image data area (810) is viewed as the reserved location.
- 6: As for Claim 5, Pavley further teaches on Column 6, Lines 10-17 archiving one image data element, the archiving comprising copying the image data element to the external information handling system (computer system); and changing the archival status of the image data element to indicate that the data element is archived.
- 7: In regards to Claim 6, Pavley further teaches on Column 4, Lines 44-47 and depicts in Figure 4 associating each image data element with a header (805) and image tags (825) which indicate that the image has been archived. Official notice is taken that it was well know in the art at the time the invention was made to restructure data packet information and to change the location of different data within the packets.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the header section (805) and the image tags section (825) of the data in Payley. So that the image tag data was contained in the header information.

- 8: As for Claim 7, Pavley further teaches on Column 5, Lines 43-45 a data bit indicating archival status, wherein the changing the contents of the header comprises inverting the data bit.
- 9: In regards to Claim 8, It is inherent that the image files have filenames that comprise at least one character. Furthermore, Pavley further teaches on Column 5, Lines 43-45 the use of a data bit for indicating archival status. The changing of the data bits to indicate archival status is viewed by the examiner to be changing a character.
- 10: As for Claim 9, Pavley further teaches on Column 6, Lines 10-17 receiving a selection from the camera (110) of one image data element (image file) to the computer (1100) for archiving.
- 11: In regards to Claim 10, Pavley further teaches on Column 6, Lines 10-17 the archiving comprises: connecting the camera (110) to the external information handling system (computer system); and copying the image data element from the memory storage unit in the camera to the external information handling system.
- 12: As for Claim 11, Pavley teaches on Column 6, lines 1-18 and Column 2, Lines 34-47 the archiving comprises: copying the image data element from the memory in the camera (110) to the external information handling system (1100). Pavley teaches that the computer has an optional removable memory port (352) to receive a removable memory card (354). Pavley does not specifically teach that the memory in the camera comprises removable memory.

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Official notice is taken that it was well known in the art at the time the invention was made to equip digital cameras with removable memory cards so that the memory capacity of the camera could be substantially increased.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to equip the camera or Pavley with removable memory cards so that the memory capacity of the camera could be substantially increased and to remove the memory cards and connect the removable storage medium to the computer via the memory card interface (352);

13: In regards to Claim 12, Pavley further teaches on Column 5, Lines 63-67 and Column 6,

Lines 1-7 determining that the memory storage unit is full; determining that at least one image data element in the image storage queue has been archived; and deleting from the memory storage unit at least one archived image data element.

- 14: As for Claim 13, Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 that the images are stored in a queue in which the oldest or last image is deleted (FIFO)
- 15: In regards to Claim 14, Pavley further teaches on Column 5, Lines 63-67 and Column 6, Lines 1-7 determining that the memory storage unit is full and determining if none of the image data elements in the image storage queue have been archived. Pavley teaches that if no images have been archived more storage space is needed. However, Pavley does not teach the method of notifying a user that the memory storage unit is full.

Official notice is taken that it was well know in the art at the time the invention was made to notify users when a memory is full so that a user can take appropriate action and change a memory card if desired.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to notify to user of the camera of Pavley when the memory is full so that a user can take appropriate action and change a memory card if desired.

- 16: As for Claim 15, Pavley further teaches on Column 6, Lines 3-9 receiving a selection of an image data element for deletion; and deleting the selected image data element from the memory storage unit. Pavley teaches that the memory management system selects an image file that had been archived and deletes the file since the archived status indicates that the file has been backed up by copying the image data to the personal computer.
- 17: In regards to Claim 16, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a digital camera (110) adapted for connection to an external information handling system (1100), the camera comprising: a controller; an image acquisition unit electrically connected to the controller; and a memory storage unit; wherein image data elements each having an archival status are stored in the memory storage unit. However, Pavley does not teach consecutively storing the image data in an image storage queue.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

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18: As for Claim 17, Pavley does not specifically teach that the memory in the camera comprises removable memory.

Official notice is taken that it was well known in the art at the time the invention was made to equip digital cameras with removable memory cards so that the memory capacity of the camera could be substantially increased.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to equip the camera or Pavley with removable memory cards so that the memory capacity of the camera could be substantially increased.

19: In regards to Claim 18, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a computer program product for controlling the handling of image data within a digital camera (110) having a memory storage unit for storing image data, the camera (110) connectable to an external information handling system (1100) adapted to receive image data from the camera (110), the computer program product comprising: instructions for storing image data elements, each image data element having an archival status; and instructions for indicating the archival status of the image data element. However, Pavley does not teach consecutively storing the image data in an image storage queue.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an

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image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

20: As for Claim 19, Pavley further teaches on Column 6, Lines 10-17 instructions for archiving one image data element, the archiving comprising copying the image data element to the external information handling system (1100); and instructions for changing the archival status of the image data element to indicate that the data element is archived.

In regards to Claim 20, Pavley further teaches on Column 5, Lines 63-67 and Column 6, Lines 1-7 instructions for determining that the memory storage unit is full; instructions for determining that at least one image data element in the image storage queue has been archived; and instructions for deleting from the memory storage unit at least one archived image data element.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 2001/0052933 Nybo et al teaches the use of a system for image capture, storage and retrieval; US 2003/0107529 Hayhurst et al; USPN 6,137,589 Obrador et al teaches an image storage system; USPN 5,717,841 Farrell et al teaches the use of a storage queue in an image processing system; USPN 6,388,687 Brackett et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M Hannett whose telephone number is 703-305-7880. The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James M. Hannett Examiner Art Unit 2612

JMH August 31, 2004

PRIMARY EXAMINER